

### REMARKS

This is a supplemental Amendment is in response to the Office Action dated January 8, 2004. This amendment replaces the amendment dated April 27, 2005, and corrects errors in claim 35 as requested by the Examiner. Claims 1-33 are pending. Claims 1-3, 7, 14-16, 19-21, 23, 24 and 27-31 are rejected. Claims 4-6, 8-13, 17, 18, 22, 25, 26, 32 and 33 are objected to. Claims 1, 5-7, 14-15, 18-19, 28 and 33 have been amended. Claims 2-4, 16-17, 20-22 and 32 have been cancelled without prejudice. New claims 34-37 have been added to further define the scope and novelty of the present invention. Claims 34-37 have been added. Accordingly, claims 1, 5-15, 18-19, 23-31, 33-37 remain pending in the present application.

### Specification

The Examiner states,

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed. The following title is suggested:

**CURRENT STEERING CHARGE PUMP HAVING THREE PARALLEL CURRENT PATHS PREVENTING THE CURRENT SOURCES AND SINKS TO TURN OFF AND ON.**

Applicant appreciates the Examiner's suggested change of title. The title has been changed accordingly.

### Claim Objections

The Examiner states,

Claim 15 is objected to because of the following informalities: "output mode" in Line 3 has a typographical error and it should be ~~output node~~. Appropriate correction is required.

Applicant has amended claim 15 in accordance with the Examiner's suggestion.

Allowable Subject Matter

The Examiner states,

Claims 4-6, 8-13, 17, 18, 22, 25, 26, 32 and 33 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of the reasons for the indication of allowable subject matter; the best prior art of record, Shenoy et al., taken alone or in combination of other references, does not teach or fairly suggest the switches of the second and third current paths define two central nodes (Claims 4-6), or a replica current source (Claims 8-13, 25, 26, 33), the current paths includes an upper switch connected in series with a lower switch (Claim 17-18, 22, 32).

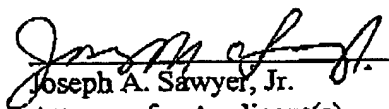
Claim 1 is now claim 4 rewritten in independent form. Claim 14 is now claim 17 rewritten in independent form. Claim 19 is claim 22 rewritten in independent form. Claim 28 is claim 32 rewritten in independent form. New claim 34 is claim 8 rewritten in independent form. New claim 35 is claim 25 rewritten in independent form. New claim 36 is identical to claim 26, but dependent on new claim 35. New claim 37 is claim 33 rewritten in independent form. Accordingly, independent claims 1, 14, 19, 28, 32, and 34-37 are allowable over the cited references. Claims 5-13, 15, 10, 18, 23-27, 29-31 and 33 are allowable, since they depend upon allowable base claims.

In view of the foregoing, it is submitted that the claims Accordingly, claims 1, 5-15, 18-19 and 23-31, and 33-37 are allowable over the cited references and are in condition for allowance.

Applicants' attorney believes this application in condition for allowance. Should any unresolved issues remain, Examiner is invited to call Applicants' attorney at the telephone number indicated below.

Respectfully submitted,  
SAWYER LAW GROUP LLP

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Joseph A. Sawyer, Jr.  
Attorney for Applicant(s)  
Reg. No. 30,801  
(650) 493-4540